

Department of Public Works

ROOM 24, MEMORIAL BUILDING • ATHOL, MASSACHUSETTS 01331



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Superintendent
DOUGLAS A. WALSH

January 12, 2017

US Environmental Protection Agency
Water Enforcement, OES4-SMR
5 Post Office Square, Suite 100
Boston, MA 02109-3912


Subject: Annual Nitrogen Removal Optimization Report - 2016
RE: MA0100005

To Whom It May Concern:

The Town of Athol Wastewater Treatment Plant is designed as an extended aeration process. The flow runs through four basins in a plug flow configuration. The first basin is operating as an anoxic zone with the following three operating as aerobic basins with D.O. controls. Upstream from the anoxic zone, MgOH is added for pH and alkalinity adjustment. Return activated sludge is reintroduced to the process at this point. Running this part of the process in this manner provides efficient nitrogen removal. During the 2016 calendar year the annual average discharge of total nitrogen was 39.38 lbs/day and 8.03 mg/l.

If you have any further questions, please feel free to contact me.

Sincerely,


Robert Sexton, Chief Operator

RS/mc

c.c. Mass DEP, Division of Wastewater Management–Surface Water Discharge Permit Program
Mass DEP, Western Region